Laucks Testing Laboratories, Inc.



940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

PO Box 3546

Seattle, WA 98124

ATTN: Jim Brown

LABORATORY NO: 97536

DATE: August 12, 1986

PO# A9138

REPORT ON: SOLID MATERIALS

SAMPLE

IDENTIFICATION: Submitted 7/2/86 and identified as shown below:

1) Code "green" ID A9138 - Green

2) Code "yellow" ID A9138 - Yellow

TESTS PERFORMED AND RESULTS:

Samples were submitted with a request to identify and characterize the materials. Results of analyses were as follows:

SAMPLE 1

The material was a white powdery solid that was partially soluble in water and mostly soluble in acid.

pH 1/10 slurry	- 10.0
Ignition residue	·- 74.0%
Carbonates	- Present as a major constituent
Organic matter	- None detected
Sulfates	- None detected
Hydrochloric acid insoluble matter	9.2%
Total Sodium	
Sodium as sodium carbonate	62.0%
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Semi-Quantitative Spectrographic Analysis

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Sodium	35.
Silica	8.8
Aluminum	0.076
Magnesium	0.024
Copper	0.021
Iron	0.022
Chromium	0.013
Calcium	0.018
Nickel	0.0090
Titanium	0.016
Manganese	0.011
Other elements	nil
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Comments:

This material is a compound that contains sodium carbonate as its major constituent and silicates as its minor constituent.

The intended use for this material was not determined, however, its composition suggests possible usage as a cleaning compound.

SAMPLE 2

The material was a white lumpy water soluble solid containing a significant amount of moisture.



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pH on 1/10 deionized water slurry	- 13.8
Carbonates	- None detected
Sulfates	- None detected
Moisture	- 30.6%
Ignition characteristics	- Similar to sodium or potassium
	hydroxide
Total alkalinity as sodium hydroxide, dry basis	
Total sodium as sodium hydroxide, dry basis	- 85% A PERSONAL PROPERTY OF THE PROPERTY OF T

Comments:

The material contains sodium hydroxide as its major constituent along with 30.6% moisture.

Numerous industrial uses for sodium hydroxide are found in the metal industry.

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J.M. Owens

JMO:dr



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